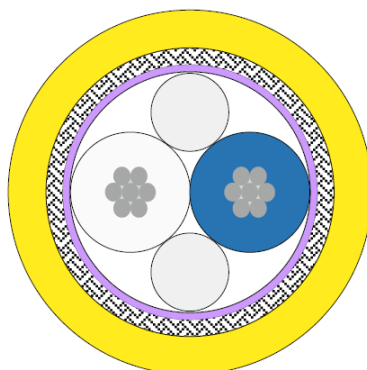


HARTING T1 SPE S/FTP 1x2xAWG22/7 PUR



Field of Application

IEEE 802.3: 10Base-T1; 100Base-T1; 1000Base-T1

T1-SPE cable assemblies

Perfectly suited for combination with the HARTING SPE connectors

Suitable for fixed and flexible installation in industrial application

Power over Data Line (PoDL)

Standards

IEC 11801-3

IEC 61156-11

IEC 61156-12

Cable design

Conductor	Tinned copper wires, AWG 22/7
Insulation	Foamed polyethylene, Ø 1,8 mm
Twisting	2 wires twisted to a pair, Color Code: blue, white
Pair screening	Alulamine foil overlapped
Overall Screening	Braid of tinned copper wires, Coverage about 90%
Sheath	PUR

Mechanical Characteristics

Bending radius	Single	4 x D
	Repeated	8 x D
Operating temperature range	fixed installation	-40°C to +80°C
	moved	-25°C to +80°C
Color		yellow
Overall diameter		(5.2 ± 0.2) mm
Weight about		36 kg/km

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Electrical Characteristics

at 20°C± 5°C

Loop resistance		120 Ω /km
Insulation resistance	(500 V)	≥ 5 GΩ *km
Capacity	1 KHz	48 nF/km
Characteristic impedance	100 MHz	100 ± 5 Ω
Operating voltage		max. 100 V
Test voltage	(DC, 1 min) Wire/Wire and Wire/Screen	1000 V

Electrical Data (nominal at 20°C)

F (MHz)	Attenuation (dB/100m)	Return loss (dB)
1	3.1	20.0
4	5.6	23.0
10	8.7	25.0
16	11.0	25.0
20	12.3	25.0
31.25	15.4	23.3
62.5	21.9	20.8
100	27.8	19.0
155	34.8	17.4
200	39.7	15.6
300	49.0	14.3
600	70.7	12.3

acc. IEC 61156-12

Material Characteristics

Flame retardant acc. to IEC 60332-1-2
 Oil resistant acc. to DIN EN 60811-404 (7x24h/90°C)
 UL Style 21815 (80°C / 300V)
 RoHS compliant (2011/65/EC)
 Halogen free
 UV resistant

Printing:

HARTING SPE CABLE SF/TP PUR 1x2xAWG22/7 E333435  AWM Style 21815 80°C 300V
 094560002000300 "year/internal order number" "sequential length in metres"

Order Informationen

Length	Partnumber
10m Ring	09 45 600 2014
50m Ring	09 45 600 2013
100m Ring	09 45 600 2012
500m Roll	09 45 600 2011